CLAIMS

- 1. A process for producing 2-0- α -glucopyranosyl-L-ascorbic acid, comprising the steps of:
- allowing α -isomaltosyl glucosaccharide-forming enzyme together with or without cyclomaltodextrin glucanotransferase (EC 2.4.1.19) to act on a solution comprising L-ascorbic acid and α -glucosyl saccharide to form 2-O- α -glucopyranosyl-L-ascorbic acid; and

collecting the formed 2-0- α -glucopyranosyl-L-ascorbic acid.

- 2. The process of claim 1, where glucoamylase (EC 3.2.1.3) is allowed to act on the reaction mixture after the action of α -isomaltosyl glucosaccharide-forming enzyme on said solution together with or without cyclomaltodextrin glucanotransferase.
- 3. The process of claim 1 or 2, where 5-O- α -glucopyranosyl-L-ascorbic acid and 6-O- α -glucopyranosyl-L-ascorbic acid are not formed or formed in such a small amount that they can not be detected in the step of forming 2-O- α -glucopyranosyl-L-ascorbic acid.
 - 4. The process of any one of claims 1 to 3, wherein said α -glucosyl saccharide is one or more saccharides selected from the group consisting of maltooligosaccharide, maltodextrin, cyclodextrin, amylose, amylopectin, soluble starch, liquefied starch, gelatinized starch, and glycogen.

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5. The process of any one of claims 1 to 4, where the reaction 25 mixture contains, on a dry solid basis, 2-0- α -glucopyranosyl-L-ascorbic acid in amount of 10 higher; and an or 5-O-α-glucopyranosyl-L-ascorbic acid $6-0-\alpha$ -glucopyranosyland

L-ascorbic acid in an amount of less than 0.1 w/w %.

- 6. The process of any one of claims 1 to 5, wherein the step of collecting 2-o-a-glucopyranosyl-L-ascorbic acid comprises a step of using a strongly-acidic cation exchange resin, and optionally further comprises a step of pulverizing or crystallizing.
- 7. The process of any one of claims 1 to 6, where the formed $2\text{-}0\text{-}\alpha\text{-}\text{glucopyranosyl-L-ascorbic}$ acid is collected in a form of syrup, powder, or crystal in its collecting.
- 8. A method for effecting a transferring reaction on L-ascorbic acid by allowing α -isomaltosyl glucosaccharide-forming enzyme with or without cyclomaltodextrin glucanotransferase to act on a solution containing L-ascorbic acid and α -glucosyl saccharide to form 2-0- α -glucopyranosyl-L-ascorbic acid.
- 9. The method of claim 8, wherein said α -glucosyl saccharide is one or more saccharides selected from the group consisting of maltooligosaccharide, maltodextrin, cyclodextrin, amylose, amylopectin, soluble starch, liquefied starch, gelatinized starch, and glycogen.

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